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**SPECIFICATION**

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IN-CONTENTS ADVERTISING METHOD, IN-CONTENTS ADVERTISING  
SERVER, AND PROGRAM-TRANSFERRING MEDIUM FOR REALIZING IN-  
5 CONTENTS ADVERTISING

**FIELD OF THE INVENTION**

The present invention relates to an in-contents advertising method, an in-  
contents advertising server, and a program-transferring medium for realizing in-  
10 contents advertising, suitable for displaying advertisements of advertisers in contents  
such as games. More specifically, the present invention obtains advertisement  
information appropriated beforehand to contents, at the time of activation of the  
contents, and inserts the advertisement information in the contents, based on  
commissioning from advertisers, and information contained within contents  
15 indicating that advertisements may be inserted, thereby enabling advertising within  
the contents.

**BACKGROUND OF THE INVENTION**

Conventionally, there are cases wherein actual advertisements of advertisers  
20 are displayed within contents such as games. A most classic example is in a  
driving game, wherein advertisements are pasted onto sign boards around the course  
as textures. With such in-game advertising, the game software company which  
creates the contents finds an advertiser, creates texture data based on commissioning  
from the advertiser, and sets this in the game advertisement area as texture. The  
25 game program data and texture containing the advertising texture, and audio data,  
are temporarily stored on a hard disk or the like by an authoring tool, then sent to the  
optical disk manufacturing process, and stamped by a stamper. The stamper

Once such contents reach the user in the form of an optical disk, the user can view the advertisements of the advertiser within the in-game advertising areas on the signs within the game space.

5           However, with the above method, the contents are placed on a medium and distributed to the user, and cannot be applied to advertisements dealing with digital contents distribution modes using networks. Also, the same advertisement is displayed indefinitely in the same advertising area, unless a new stamper is made. Accordingly, it is difficult to easily update the contents of advertisements whenever  
10       appropriate according to requests from the advertisers and so forth.

## SUMMARY OF THE INVENTION

The present invention has been made to solve the above-described problems.

Accordingly, the in-contents advertising method according to the present  
15 invention includes advertisement information provided beforehand in contents,  
based on information contained within contents indicating that advertisements may  
be inserted within the contents.

Also, the in-contents advertising server according to the present invention inserts advertisement information in contents, based on specifications of the advertiser, and information contained within contents indicating that advertisements may be inserted.

Also, the program transferring medium according to the present invention is for realizing in-contents advertisements by obtaining advertisement information appropriated beforehand to the contents, at the time of activation of the contents, and inserting the advertisement information in the contents, based on information contained within contents indicating that advertisements may be inserted.

Also, the digital contents distribution system according to the present

invention for realizing in-contents advertisements comprises: a digital contents distribution system comprising a first server storing a plurality of digital contents to be provided; an advertisement information providing system comprising a database storing advertisement information which is to be set in advertisement areas in the digital contents; and a plurality of user terminal devices; wherein, in response to download requests for specific digital contents from the users, the digital contents distribution system receives advertisement information corresponding to the specific digital contents from the database of the advertisement information providing system, and subsequently distributes the specific digital contents to the user.

Also, the digital contents distribution system for realizing in-contents advertisements according to the present invention comprises: a digital contents distribution system comprising a first server storing a plurality of digital contents to be provided; an advertisement information providing system comprising a database storing advertisement information which is to be set in advertisement areas in the digital contents; and a plurality of user terminal devices; wherein, in response to download requests for specific digital contents from the users, the digital contents distribution system distributes the specific digital contents to the user; and wherein the advertisement information providing system transmits advertisement information corresponding to the specific digital contents from the database, to the user.

Now, the digital contents distribution system according to the present invention may configure a network of the digital contents distribution system comprising the first server, the advertisement information providing system comprising the database, and the plurality of user terminal devices, using one, or two or more, of the following means: cable television, broad-band wireless network, and optical fiber network.

Also, the digital contents distribution system according to the present invention may further comprise means for recording the transmission state of the

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advertisement information, with advertising fees being calculated based on the recording results, and may further comprise a contents providing system for creating contents and providing the contents to the digital contents providing system, and an advertisement creating system for creating advertisement information and providing  
5 the advertisement information to the advertisement information providing system.

The digital contents distribution system may further comprise a banking system, wherein the advertisement information providing system comprises means for recording the transmission state of the advertisement information, with advertising fees being calculated based on the recording results, and the advertiser is  
10 billed for the advertising fees from the bank.

Also, the advertisement information providing system may provide the advertisement creating system with advertisement structure information containing at least portions and times regarding which advertisement insertion can be made, and the advertisement creating system may provide the advertisement information  
15 creating system with advertisement information created based on the advertisement structure information and specified information from the advertiser.

Further, the digital contents data may contain advertisement programs, with the advertisement information being set into the digital contents by the advertisement programs.

Also, the digital contents providing system according to the present invention comprises a plurality of servers storing digital contents, wherein the digital contents providing system configures an advertisement information providing system having a database storing advertisement information to be set into advertising areas within the digital contents, and a network, and wherein, in response to  
20 download requests for digital contents from the users, the digital contents distribution system receives corresponding advertisement information from the database, and distributes the advertisement information along with the requested  
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The following is a description of an embodiment of the present invention, with reference to Figs. 1 through 9 in order.

Fig. 1 is a block diagram illustrating an overall system wherein a related

Fig. 9 is a flowchart illustrating the advertisement output operations in the event that game data is being downloaded to the user client terminal.

## DESCRIPTION OF THE PREFERRED EMBODIMENTS

The following is a description of an embodiment of the present invention, with reference to Figs. 1 through 9 in order.

Fig. 1 is a block diagram illustrating an overall system wherein a related

server or terminal is connected to a network 1, such as cable television, a broad-band wireless network, or an optical fiber network, for example. As shown in Fig. 1, connected to the network 1 are a contents provider system 2 made up of a contents server 4 and a system 3, an advertising agency server 5 having a database 6 such as advertisement information data and the like for configuring an advertisement information creating system, terminals 7-1 through 7-N which are terminals of a contents providing company such as a game software company or the like, advertiser terminals 8-1 through 8-N, user terminals 9-1 through 9-N, a bank server 10, and an advertisement creating company server 11.

Now, the contents server 4 is for distributing digital contents requested from users 9-1 through 9-N, and stores massive amounts of contents digital contents produced by authoring at the contents providing company 7-1 through 7-N, e.g., contents such as games or the like.

The overall system will be described with reference to Fig. 2. The contents providing company 7-1 through 7-N provides the advertising agency server 5 with advertisement structure information indicating portions and time slots in which advertisements can be inserted, demonstration information, etc. ((1) providing advertisement structure information), and this is registered in the database 6 of the advertising agency server 5. The advertising agency server 5 directly informs the advertiser terminals 8-1 through 8-N of the advertisement informing information such as "title", "contents", etc., of a newly-registered title, by mail or otherwise ((2) informing).

The advertiser 8-1 through 8-N can access the advertising agency server 5, and can view the advertisement informing information ((3) viewing), and further apply for advertising from the browser screen ((4) application). Once the advertisers have been decided upon, advertiser specified information such as "advertiser name", time slot, and time period, are notified to the contents providing

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Figs. 3A and 3B are explanatory diagrams illustrating an example of data configuration of advertisement structure information supplied to the advertising agency server 5 via the contents providing company terminals 7-1 through 7-N in the above advertisement information providing step (1).

Now, the demonstration program 22 is the actual title program simplified for a demonstration. Also, the object data 23 is a collection of coordinates values of objects made up of polygon apex data or the like, for example. The texture data 24 is pattern data of the object data converted from 3-dimensional data to 2-dimensional data by transparent conversion and subsequently written to areas indicated by coordinates value, and in the event that the object data is a racing car, for example, the texture data is the coloring pattern on the body, and so forth.

As shown in Fig. 3A here, advertisement insertable information AD1 is set into the movie 21 area, advertisement insertable information AD2 is set at the head of the object area, and advertisement insertable information AD3 and AD4 are set to the heads of each texture area. For example, AD1 contains information such as a code indicating that advertisements may be inserted, code indicating that the data is a movie, the number of insertion frames, resolution etc., AD2 contains information such as a code indicating that advertisements may be inserted, code indicating that the data is an object, and AD3 and AD4 each contain information such as a code indicating that advertisements may be inserted, code indicating that the insertion format may be any of all or part of texture, code indicating that the data is texture, the range of the texture in the event of all, the range of the texture in the event of part,

and so forth. The advertising agency server 5 makes reference to this information and thus generates the viewing screen for the advertiser in the above viewing step (3).

Fig. 3B is a screen display example of a screen which the advertiser can view by accessing the advertising agency server 5. As shown in Fig. 3B here, the display screen is made up of list data Da such as title, manufacturer, advertisement target 1, estimated amount, advertisement target 2, estimated amount, and so forth, and switches and the like displayed below, which are a game demo switch SW1 for executing the game demo, an advertisement sample switch SW2 for showing an advertisement sample, switches SW3 through SWn for specifying advertisement targets 1 through n, and estimate sum switch SWn+1 for calculating and displaying the estimate sum, an input area IN1 for inputting the advertisement carrying period, an input area IN2 for inputting the advertisement carrying time slot, and an applying switch SWn+2 for applying.

In the above applying step (4), the advertiser can watch the game demo and the advertisement sample, select the advertisement object, input the advertisement carrying period and time slot, confirm the estimated sum, and apply, Note that data of the same contents of the above list is formed in the database 6 of the advertising agency server 5.

In the event that the advertiser presses the schedule button SWn+3, a schedule SC1 such as shown in Fig. 4 is displayed on a monitor (not shown) connected to the terminals 8-1 through 8-N of the advertiser, along with buttons Bu1 through Bun for selecting advertising targets, a monthly schedule SC2 for specifying the month, and a daily schedule SC3 for specifying the day.

The schedule SC1 is made up of time slot, status, and monetary amount. The time slot is in increments of one hour, for example. The status indicates whether or not another advertiser has already applied, with a circle meaning that application can be made, and an X implying that application cannot be made. In

other words, an X means that another advertiser has already applied for that time slot. This schedule is made for each advertisement target. As shown in the Figure, advertising target 1 is selected for the current schedule. Here, the button Bu1 for the advertisement target 1 is displayed in inverse (hatched in the figure). Also, May (hatched) is specified for the month, and the 10th (framed) for the day.

Fig. 5 is a block diagram illustrating one of the user terminals 9-1 through 9-N, e.g., 9-1. As shown in Fig. 5 here, the user terminal 9-1 comprises a user terminal 12, monitor 13, main data storage 14, sub-data storage 15, controller 16, and interface 17 for network 1. This terminal 9-1 is an entertainment system represented by home game computers for example, wherein the main data storage 14 is a hard disk drive or a high-speed optical disk drive or the like, and the sub-data storage 15 is flash memory. Game data G1 through Gn containing advertisement programs AP1 through APn as shown in Fig. 6 respectively are each stored in the main data storage 14. The other user terminals 9-2 through 9-N are of the same configuration.

As shown in Fig. 6, the sets of game data G1 through Gn are each made up of a header 30 of contents providing company name, title, date of sale, etc., and movie data 31, program data 32, object data 33, multiple sets of texture data 34, advertising program data AP, and so forth. Here, the program data is not a demonstration program like the advertisement structure information, but is an authentic program intended for sale. Also, with regard to the advertising program data, advertisement information is obtained from the advertising agency server 5 based on the embedded above information indicating that advertisements may be inserted, and the advertisement information is displayed in the game.

Next, with reference to Fig. 7, description will be made the advertising carrying operation of the advertising program in the event that the user has activated contents downloaded to an own terminal 9-1 through 9-N.

FIG. 5

5 proceeds to step S2. In step S2, the advertising program accesses the server 5 of  
the advertising agency, and also in step S3, makes notification of the title of the  
digital contents activated on the user terminal 9-1 through 9-N, and user address.  
Thus, the server 5 reads out the advertisement data corresponding to the database 6,  
and transfers this to the above address. In step S4, the user terminal 9-1 through 9-  
10 N receives the above advertising data under control of the advertising program,  
records this in the main data storage 14 (see Fig. 5) in step S5, and in step S6  
generates a table of information indicating addresses in the main data storage for  
advertisement data, and the position of the advertisement target, i.e., information  
indicating which advertisement insertable information shown in Fig. 6 this is.

15           Once the game starts in step S7, subsequently in step S8 judgement is made whether or not the position is the position for inserting advertisement information, and in the event that this yields "YES", in step S9 the corresponding advertisement data is positioned at the corresponding position in the memory. It is needless to say that this positioning is made at an earlier point in the progression of the game. Also,  
20           an arrangement may be made wherein not all advertisement data is obtained at once, but rather a little is obtained at a time as the game progresses. Further, movie data is preferably placed in the main memory or a graphics engine buffer immediately before the game starts, object data is preferably placed in the main memory either immediately before the game starts or before the data is used, and texture data is  
25           preferably placed in the main memory or a graphics engine buffer either immediately before the game starts or before the data is used.

Thus, with driving games for example, arrangements can be realized

wherein cars the same as cars actually manufactured and sold by the advertiser can be operated by the user, or wherein advertisements of the advertiser are carried on the body of the car operated by the user, and so forth.

Next, with reference to Fig. 8, description will be made regarding operation  
5 of the advertising agency server 5 in the event that advertising data is requested by the advertising program.

In step S10, judgement is made regarding whether or not there is access from the user terminals 9-1 through 9-N, and in the event that this yields "YES", the title of the digital contents and the user address is received from the terminals 9-1  
10 through 9-N in step S11, the database 6 is referred to in step S12, advertisement data corresponding to the title is read out in step S13, the advertisement data is transmitted to the user terminals 9-1 through 9-N indicated by the user address received in step S14, and the transmission record for the advertising data is updated in step S15. Counting the number of times of updating the transmission record  
15 allows measurement of how many advertisements have been viewed to be made, and payment to the contents providing company and billing the advertiser can be calculated based on this value.

Next, carrying advertisements at the time of downloading digital contents will be described with reference to Fig. 9.

20 In step S20, the system 3 of the contents provider 4 judges whether or not there has been a request for downloading digital contents from the user terminals 9-1 through 9-N, and in the event that this yields "YES", the flow proceeds to step S21, and then notifies the title to the advertising agency server 5. The advertising agency server 5 searches the database 6 for the advertising information data  
25 corresponding to the received title, and transmits this to the system 3 of the contents provider 2. In step S22, the system 3 of the contents provider 2 receives the downloading advertisement data. In step S23, once the contents server 4 starts

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Further, according to the present invention, an in-contents advertising method, an in-contents advertising server, and a program-transferring medium for realizing in-contents advertising, capable of easily updating the advertisement contents whenever appropriate, can be provided.